

---

1. A thermally tunable optical fiber device comprising:

a length of optical fiber including the thermally tunable device; and

circumferentially surrounding the thermally tunable device, an unslotted microcapillary heater for thermally tuning the device, the heater comprising a microcapillary tube having an effective outside diameter of less than about 2 mm and an electrically resistive heater formed on or constituting the tube.

Add Claim 11:

11. A thermally tunable optical fiber device comprising:

a length of optical fiber including the thermally tunable device; and

circumferentially surrounding the thermally tunable device, a microcapillary heater for thermally tuning the device, the heater comprising a microcapillary tube having an effective outside diameter of less than about 2 mm and an electrically resistive heater formed on or constituting the tube, wherein the heater comprises a plurality of resistive coatings angularly spaced apart around the periphery of the tube.

Add Claim 12:

12. The tunable fiber device of claim 11 wherein the tube comprises an electrically resistive material, and the heater comprises the resistive material of the tube.

Add Claim 13:

13. The tunable fiber device of claim 11 further comprising an additional heater on the fiber.

---